

What is claimed is:

1. A tree trimmer comprising, /
a means of transportation,
a swing frame swingably connected about a substantially vertical axis on the means
5 of transportation,
an arm pivotally connected about a substantially horizontal axis on the swing
frame,
a telescoping boom connected with the arm,
means of detachably connecting the telescoping boom with the arm, and
10 cutting means mounted about a first end of the telescoping boom.
2. The tree trimmer according to claim 1 wherein the means of connecting the
telescoping boom with the arm is adapted and arranged to prevent relative linear
movement between the boom and the arm.
3. The tree trimmer according to claim 1 wherein the means of connecting the
15 telescoping boom with the arm is adapted and arranged to prevent relative pivotal
movement between the boom and the arm.
4. The tree trimmer according to claim 1 wherein the means of detachably connecting
the telescoping boom with the arm comprises a boom support having a telescoping boom
receiving portion, a first connecting point adapted and arranged to connect with a first site
20 on the arm by a first fastening means and a second connecting point adapted and arranged
to connect with a second site on the arm by a second fastening means.

5. The tree trimmer according to claim 1 further comprising a first reel and a second reel, wherein the first reel is substantially adjacent to a first side of the telescoping boom and the second reel is substantially adjacent to a second side of the telescoping boom.
6. The tree trimmer according to claim 1 wherein the means of detachably connecting
5 the telescoping boom with the arm comprises a boom support having a top side for receiving the telescoping boom, a front end and a rear end opposite the front end, the rear end being in close proximity to a second end of the telescoping boom.
7. The tree trimmer according to claim 1 wherein the means of transportation includes a hydraulic power system integral therewith.
- 10 8. The tree trimmer according to claim 7 further comprising a first hydraulic motor operatively connected with the hydraulic power system and the cutting means.
9. The tree trimmer according to claim 7 wherein the telescoping boom and cutting means are hydraulically manipulated with a set of controls that are integral with the means of transportation.
- 15 10. The tree trimmer according to claim 7 further comprising a set of controls integral with the means of transportation wherein the set of controls are operatively connected with the cutting means and adapted and arranged to impart cutting motion to the cutting means.
11. The tree trimmer according to claim 7 wherein the telescoping boom comprises at least two telescopic members.
- 20 12. The tree trimmer according to claim 11 further comprising a second hydraulic motor operatively connected with the hydraulic power system and the telescoping boom for imparting boom extending and boom retracting movements to the telescopic members.

13. The tree trimmer according to claim 12 further comprising a set of controls integral with the means of transportation wherein the set of controls are operatively connected with the telescoping boom and adapted and arranged to impart boom extending and boom retracting movement to the telescopic members.
- 5 14. The tree trimmer according to claim 7 further comprising at least one reel including conduit, the conduit being operatively connected with the hydraulic power system and a second hydraulic motor.
15. The tree trimmer according to claim 14 further comprising at least one roller in connection with the conduit.
- 10 16. The tree trimmer according to claim 6 wherein the boom support comprises a first mounting piece connected therewith in close proximity to the front end, the first mounting piece being adapted and arranged to connect with the arm.
17. The tree trimmer according to claim 6 wherein the boom support comprises a second mounting piece connected therewith and in close proximity to the rear end, the second mounting piece being adapted and arranged to connect with the arm.
- 15 18. The tree trimmer according to claim 6 further comprising a first reel and a second reel, the first reel being positioned substantially adjacent to a first side of the telescoping boom and the second reel being positioned substantially adjacent to a second side of the telescoping boom.
- 20 19. The tree trimmer according to claim 6 wherein the boom support comprises at least one reel including conduit, the conduit being operatively connected with a hydraulic power system and a hydraulic motor and wherein the hydraulic power system is integral

with the means of transportation and the hydraulic motor is operatively connected with the cutting means.

20. The tree trimmer according to claim 18 further comprising at least one roller in connection with the conduit wherein the at least one roller is positioned above a plane
5 formed by the top side.

21. A support comprising, /
a top side adapted and arranged to receive a telescoping boom modified for trimming vegetation,

a bottom side,
10 a first lateral side,
a second lateral side,
a front end,
a rear end,

a first mounting piece in close proximity to the front end, the first mounting piece
15 being adapted and arranged to connect with an arm, and

a second mounting piece in close proximity to the rear end, the second mounting piece being adapted and arranged to connect with the arm.

22. The support according to claim 21 wherein the first mounting piece and the second mounting piece are adapted and arranged to prevent relative pivotal movement between the
20 telescoping boom and the arm.

23. The support according to claim 21 wherein the first mounting piece and the second mounting piece are adapted and arranged to prevent relative linear movement between the telescoping boom and the arm.

24. The support according to claim 21 further comprising a first reel and a second reel, wherein the first reel is positioned adjacent to the first lateral side and the second reel is positioned adjacent to the second lateral side.
25. The support according to claim 21 further comprising a first roller and a second
5 roller, wherein the first roller and the second roller are located above a plane formed by the top side.
26. The support according to claim 21 further comprising at least one reel positioned adjacent to the support.
27. The support according to claim 21 further comprising at least one roller positioned
10 above a plane formed by the bottom side.
28. A tree trimming apparatus comprising, /
a telescoping boom assembly detachably connected with an arm in an arrangement which prevents linear relative movement between the arm and the telescoping boom assembly, and
15 cutting means mounted about a first end of the telescoping boom assembly.
29. The apparatus according to claim 28 wherein telescoping boom assembly is detachably connected with the arm in an arrangement which prevents relative pivotal movement between the arm and the telescoping boom assembly.
30. The apparatus according to claim 28 wherein the telescoping boom assembly
20 includes a telescoping boom, a telescoping boom receiving portion and an arm receiving portion.
31. The apparatus according to claim 28 wherein the telescoping boom assembly is

adapted and arranged to be powered by a power source and controlled by a set of controls that are integral with an existing means of transportation.

32. The apparatus according to claim 30 wherein the arm receiving portion comprises a first mounting bracket adjacent to a front end of the arm receiving portion.

5 33. The apparatus according to claim 32 wherein the arm receiving portion comprises a second mounting bracket adjacent to a rear end of the arm receiving portion.

34. The apparatus according to claim 33 wherein the telescoping boom assembly comprises a first reel and a second reel, wherein the first reel is positioned adjacent to a side of the telescoping boom assembly and the second reel is positioned adjacent to
10 another side of the telescoping boom assembly.

35. The apparatus according to claim 34 wherein the telescoping boom assembly comprises a first roller and a second roller, wherein the first roller and the second roller are located above a substantially horizontal plane bisecting the first mounting bracket and the second mounting bracket.

15 36. The apparatus according to claim 28 wherein the telescoping boom assembly includes at least one reel positioned adjacent to the telescoping boom assembly.

37. The apparatus according to claim 36 wherein the telescoping boom assembly includes at least one roller positioned adjacent to the telescoping boom assembly and a conduit operatively extended between the at least one reel and the at least one roller.

20 38. Method of trimming vegetation comprising, /
providing a means of transportation having an arm connected therewith,

detachably attaching a telescoping boom assembly having a cutting means mounted about an end thereof to the arm such that the telescoping boom assembly and arm cannot pivot linearly relative to one another,

imparting cutting motion to the cutting means,

5 extending the telescoping boom assembly, and

contacting the cutting means with vegetation to be cut.

39. The method according to claim 38 further comprising operating the telescoping boom assembly by manipulating a set of controls integral with the means of transportation.

40. The method according to claim 38 further comprising imparting cutting motion to
10 the cutting means by accessing a hydraulic power system integral with the means of transportation.

41. The method according to claim 38 further comprising altering a cutting angle of the cutting means by tilting the means of transportation by deploying at least one outrigger integral with the means of transportation.

15 42. A method of converting an existing means of transportation into a tree trimming apparatus comprising, /

providing the existing means of transportation wherein the existing means of transportation includes an integral hydraulic power system, an integral set of controls and an arm pivotally connected therewith,

20 providing a telescoping boom assembly having a cutting means mounted thereto,
and

detachably connecting the telescoping boom assembly to the arm.

43. The method according to claim 42 further comprising operatively connecting the hydraulic power system and the set of controls with the telescoping boom assembly and imparting boom extending and retracting movements and imparting cutting motion to the cutting means by manipulating the set of controls.
- 5 44. The method according to claim 42 wherein connecting the telescoping boom assembly to the arm comprises connecting the telescoping boom assembly to the arm such that the telescoping boom assembly and the arm cannot pivot linearly relative to one another.
45. The method according to claim 42 wherein connecting the telescoping boom
10 assembly to the arm comprises connecting the telescoping boom assembly to the arm such that the telescoping boom assembly and the arm cannot pivot relative to one another.
46. The method according to claim 42 further comprising pivotally connecting the arm about a substantially horizontal axis on a swing frame and pivotally connecting the swing frame about a substantially vertical axis on the means of transportation.
- 15 47. The method according to claim 42 wherein detachably connecting the telescoping boom assembly to the arm comprises inserting a first fastening means through a first mounting piece of the telescoping boom assembly and a first connecting piece of the arm and inserting a second fastening means through a second mounting piece of the telescoping boom assembly and a second connecting piece of the arm.
- 20 48. A tree trimming apparatus comprising,
an arm connected with a means of transportation selected from the group consisting of a tractor, a backhoe, a backhoe loader and a material handling truck,
a telescoping boom assembly connected with the arm, and

cutting means connected with the telescoping boom assembly.

49. The tree trimming apparatus according to claim 48 wherein the arm and means of transportation are adapted and arranged to prevent from about 200 degrees to about 360 degrees of rotation there between.

50. The tree trimming apparatus according to claim 48 wherein telescoping boom assembly is adapted and arranged to prevent relative movement between the telescoping boom assembly and the arm.

51. The tree trimming apparatus according to claim 48 wherein telescoping boom assembly is adapted and arranged to prevent relative linear movement between the telescoping boom assembly and the arm.

52. The tree trimming apparatus according to claim 48 wherein telescoping boom assembly is adapted and arranged to prevent pivoting between the telescoping boom assembly and the arm.

53. A method of trimming vegetation comprising,
providing the tree trimming apparatus according to claim 48,
operatively connecting a hydraulic power system integral with the means of transportation to the telescoping boom assembly,
selectively imparting cutting motion to the cutting means by manipulating one of a set of controls that are integral with the means of transportation, and
contacting the cutting means with vegetation to be cut.

54. The method according to claim 54 further comprising selectively imparting boom retracting and boom extending movements to an inner boom member of the telescoping boom assembly by manipulating another one of the set of controls.